

Jonathon Weakley
Chief Operator of Water/Wastewater
118 W. Davis Street Suite 101, Culpeper, Virginia 22701
Telephone: (540) 727-3409 Fax: (540) 727-3436
Email: jweakley@culpepercounty.gov



December 18, 2015

Ms. Alison Thompson Department of Environmental Quality Northern VA Regional Office 13901 Crown Court Woodbridge, VA 22193

RE: VA0068586 Culpeper County Industrial Airpark WWTP
Application for VPDES Permit renewal

Dear Ms. Thompson:

Please find attached an original and two (2) copies of an application for renewal of the above referenced permit.

If you should have questions please contact me at (540) 727-3409. Sincerely,

Jonathon Weakley Chief Operator

Culpeper County Environmental Services

cc: Paul Howard/Director of Environmental Services

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed:	County of Culpeper, Dept. of Environmental Services
Owner:	County of Culpeper
Applicant's Address:	118 West Davis Street, Suite 101
	Culpeper, VA 22701
Agent's Telephone Number:	540-727-3409
Authorizing Agent:	Paul Howard
	Signature

VPDES Permit No. VA0068586 Culpeper County Industrial Airpark WWTP

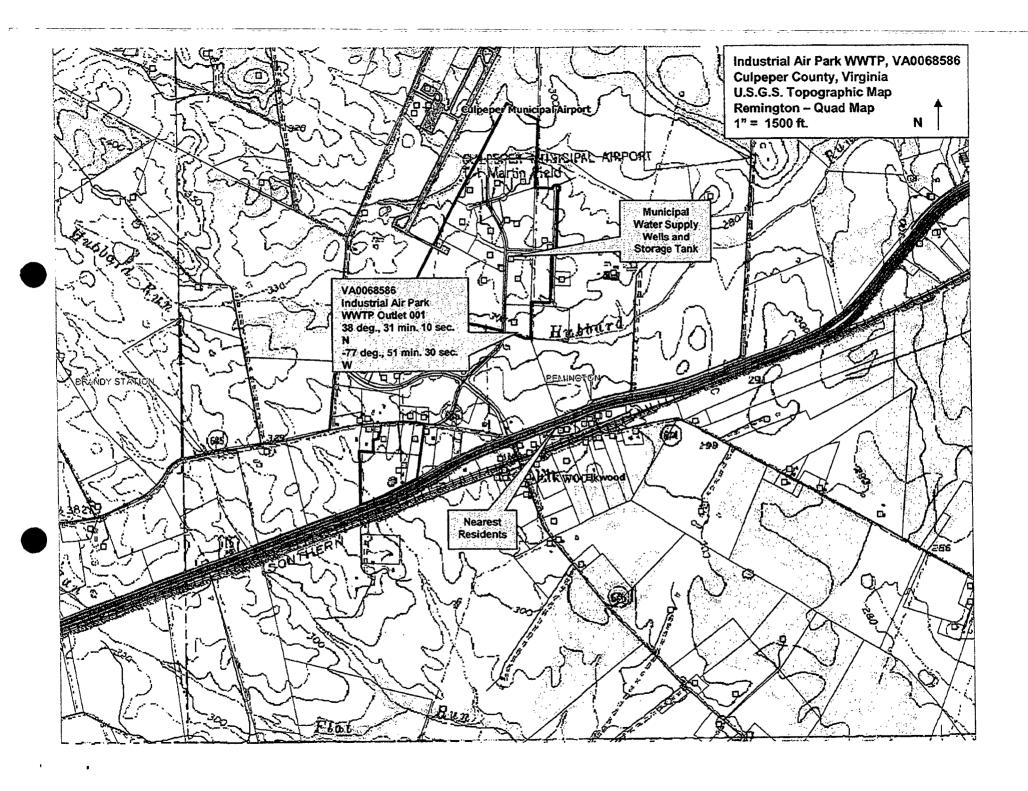
Please return to:

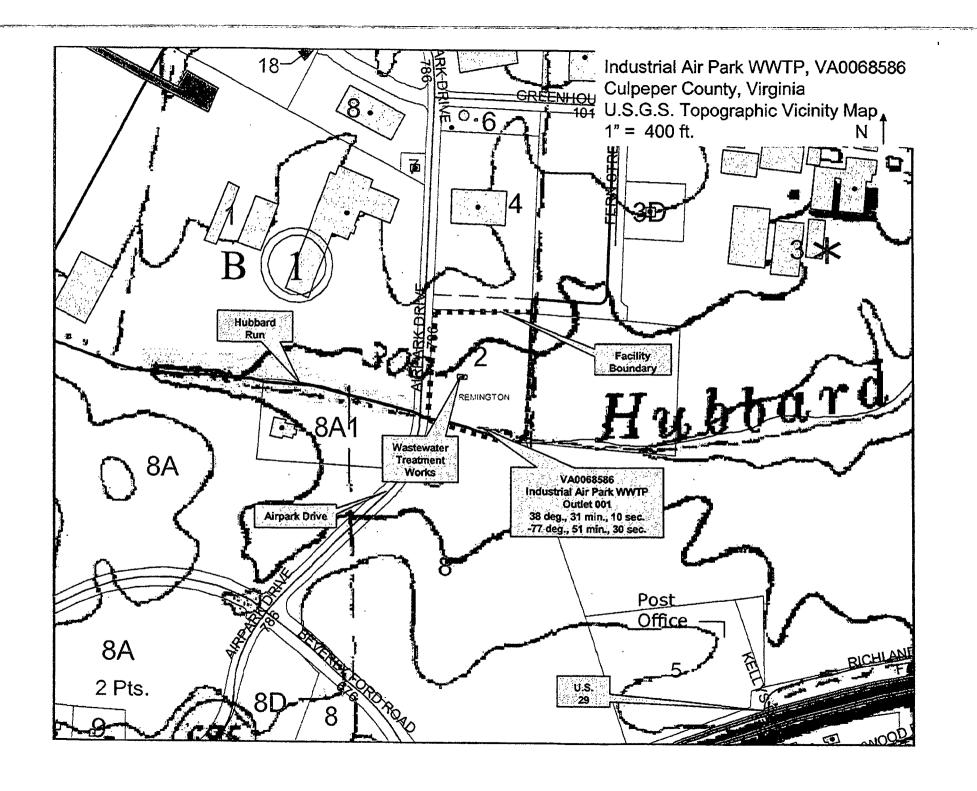
Alison Thompson VA-DEQ, NRO 13901 Crown Court Woodbridge, VA 22193-1453 Fax: (703)583-3821

VPDES PERMIT APPLICATION ADDENDUM

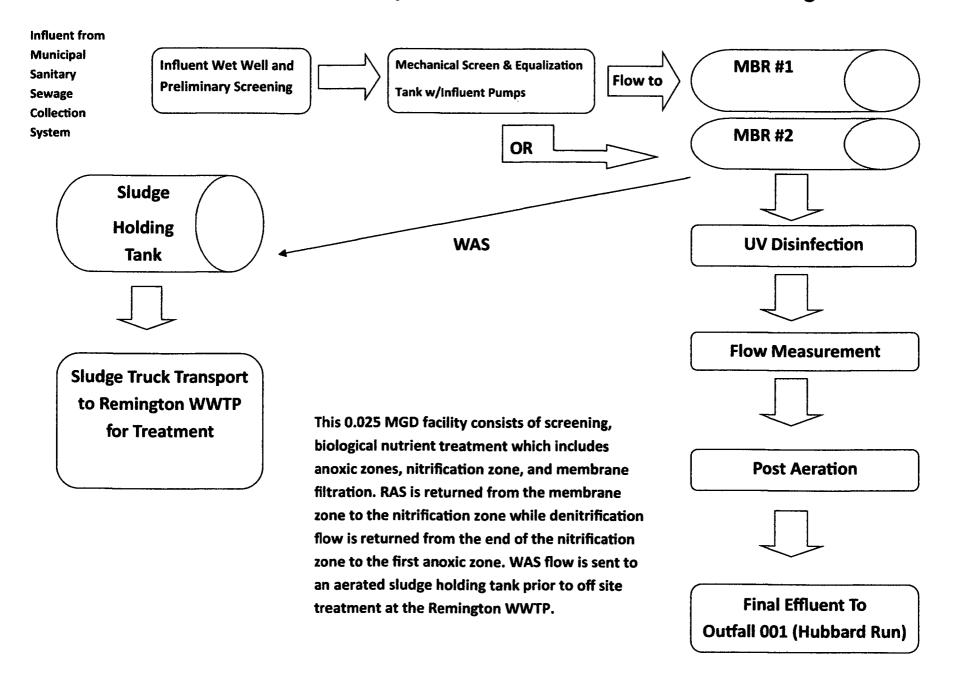
1.	Entity to whom the permit is to be issued:	County of C	Culpeper	<u> </u>				
	Who will be legally responsible for the wastewater treatment not be the facility or property owner.	at facilities	s and co	mpliance	with the	permit?	This m	ay or may
2.	Is this facility located within city or town boundaries?	Yes	No: X					
3.	Please provide the tax map parcel number for the land v	vhere the	dischar	ge is loc	ated:	34B12	2	
4.	For the facility to be covered by this permit, how many a construction activities?2.5	acres will	be distu	rbed du	ring the	next five	years (due to nev
5.	What is the design average flow of this facility in million industrial facilities, provide the maximum 30-day averaged N/A							AGD) For
6.	In addition to the design flow or production level, should flow tiers or production levels? Yes: X No If yes, please identify the other flow tiers in MGD:					for any o	other d	ischarge
	Please consider the following as you answer the questions is applicable): Do you plan to expand operations during the n greater than your current flow?							
7. <u>cus</u>	Nature of operations generating wastewater:N	<u>funicipal s</u>	sanitary	sewage (collection	from ind	ustrial	airpark
8. 9.		rces Intermitter	nt		Seasonal		 pint(s):	
	Stream Characteristic				itfall Nu	mber		
	Stream Characteristic		0	0	1			
	Permanent stream, never dry							
	Intermittent stream, usually flowing, sometimes dry	X						
	Ephemeral stream, wet-weather flow, often dry							
	Effluent-dependent stream, usually or always dry							
	Lake or pond at or below discharge point							
	Other:							

10.	Approval date(s), if applicable:							
	O & M ManualFebruary 19, 2009	Sludge/Solids Manage	ement Plan February 19, 2009					
	Have there been changes in your operation	n or procedures since the above app	roval dates? Yes No: X					
	 Privately Owned Treatment Works: If this application is for a privately owned treatment works serving, or designed to serve, 50 or more residences, you must include with your application notification from the State Corporation Commission that you are incorporated in the Commonwealth and verification from the SCC that you are in compliance with all regulations and relevant orders of the State Corporation Commission. Incorporated also includes Limited Liability Companies (LLCs), Limited Partnerships (LPs) and certificates of authority. Please provide a list of Materials stored at the facility. Please complete the table below or attach another page if more room is necessary. 							
		Material Storage						
	Materials Description	Volume Stored	Spill/Stormwater Prevention Measures					
	Alum	110 gallons	Kept under roof inside containment					
	Caustic	220 gallons	Kept under roof inside containment					
	Micro C	220 gallons	Kept under roof inside containment					
	·							
13.	Please provide the name and email add	resses for personnel who will be in	nvolved with the reissuance of the VPDES					
	permit:	The state of the s						
	Name	Title	E-mail Address					
	·	Title Director	E-mail Address phoward@culpepercounty.gov					
	Name							
	Name							
	Name							
	Name Paul Howard Consent to receive Electronic Mail The Department of Environmental Qualit issuances, reissuances, modifications, reincluding applicants or permittees, by electronic to receive mail electronically (§ 1 receipt of electronic mail from DEQ as follows:	y (DEQ) may deliver permits and covocation and reissuances, terminal ectronically certified mail where the 0.1-1183). Check only one of the felows: To receive by electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and to certify receipt of such electronic mail the perity, and the perity of such electronic mail the perity of such	phoward@culpepercounty.gov certifications (this includes permit tions and denials) to recipients, e recipients notify DEQ of their following to consent to or decline that may be issued for the erronic mail when requested by the					





Culpeper County Industrial Airpark WWTP VA0068586 Process Flow Diagram



FACILITY NAME AND PERMIT NUMBER:

Culpeper Industrial Airpark WWTP, VA0068586

Form Approved 1/14/99 OMB Number 2040-0086

FORM

2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

Form Approve	d 1/14/99
OMB Number	2040-0086

FACILITY NAME AND PERMIT NUMBER:

Culpeper Industrial Airpark WWTP, VA0068586

Culpeper Industrial Airpark WW1P, VA0000000								
ВА	SIC APPLICA	TION INFO	PRMATION			****		
PAR	RT A. BASIC APPL	ICATION INF	FORMATION FOR ALL	APPLICANTS:				
All ti	reatment works mus	t complete que	stions A.1 through A.8 of	this Basic Applicat	ion Information pac	ket.		
A.1.	Facility Information	1.						
	Facility name	Culpeper Co	unty Industrial Airpark W	/astewater Treatm	ent Plant	,		
	Mailing Address	118 West Da	vis Street Suite 101. Cu	lpeper. VA 22701				
	Contact person	Paul Howard	. Jr.					
	Title	Director of E	nvironmental Services					
	Telephone number	(540) 727-34	09					
	Facility Address (not P.O. Box)	13281 Airpar	k Drive, Culpeper, VA 2	2701		·		
A.2.	Applicant informati	on. If the applic	cant is different from the ab	ove, provide the follo	wing:			
	Applicant name	Culpeper Co	unty	 	· · · · · · · · · · · · · · · · · · ·			
	Mailing Address	118 West Davis Street, Suite 101, Culpeper, VA 22701						
	Contact person	Same as not	ed above					
	Title							
	Telephone number	***************************************	····					
	is the applicant the	owner or oper	ator (or both) of the treatr	nent works?				
	√ owner		operator					
		respondence re	garding this permit should b	e directed to the fac	ility or the applicant.			
	facility		applicant					
A.3.	Existing Environme works (include state-			of any existing enviro	onmental permits that	have been issued to the treatment		
	NPDES VA00685	586		PSC	N/A			
	UIC N/A			Othe	er <u>N/A</u>			
	RCRA <u>N/A</u>			Othe	er <u>N/A</u>			
A.4.	Collection System I each entity and, if kn etc.).	Information. Prowide inf	rovide information on munic formation on the type of coll	ipalities and areas s ection system (comb	erved by the facility. I pined vs. separate) an	Provide the name and population of id its ownership (municipal, private,		
	Name		Population Served	Type of Colle	ection System	Ownership		
	Industrial Park		400	Separate	 	Municipal		
					· 	· · · · · · · · · · · · · · · · · · ·		

Total population served 400

FACILITY NAME AND PERMIT NUMBER:

Culpeper Industrial Airpark WWTP, VA0068586

A.5.	Inc	lian Country.							•	
	a.	Is the treatment works located in India	an Co	untry?						
		Yes	No							
	b.	Does the treatment works discharge through) Indian Country?	o a re	eceiving water that is either in	n Indian Country o	or that is upstro	eam fro	m (and o	eventually	flows
		Yes ✓	No							
	.		44			the stantes	L:14 40 1	haadla\	Alaa ara	rida tha
A.b.	ave	w. Indicate the design flow rate of the erage daily flow rate and maximum dai iod with the 12th month of "this year" or the control of the	y flow	rate for each of the last thre	ee years. Each ye	ear's data mus	t be bas			
	a.	Design flow rate0.100	mad							
	u.	Design new rate	gu	Two Years Ago	Last Year		This Ye	эаг		
	b.	Annual average daily flow rate		0.012		0.014			0.011	mgd
	C.	Maximum daily flow rate		0.035		0.039			0.033	mgd
	٥.	Handley Organic Indicate the time (a)	- د د د	In attack and a second but the	- 444 -14	Charle all tha	A annie	Alee	-4i4 4b-	
A./.		ilection System. Indicate the type(s) ntribution (by miles) of each.	or cor	lection system(s) used by th	e treatment plant.	Check all tha	ι арріу.	AISO E	sumate un	e percent
	,	Separate sanitary sewer							100	%
		Combined storm and sanitary s	ewer			-				
	_					_				
A.8.	Dis	scharges and Other Disposal Metho	18 .			_				
	a.	Does the treatment works discharge	effluer	nt to waters of the U.S.?			Yes			No
		If yes, list how many of each of the fo	llowin	g types of discharge points t	the treatment work	s uses:				
		i. Discharges of treated effluent						1		
		ii. Discharges of untreated or partia	ly trea	ated effluent				0	 -	
		iii. Combined sewer overflow points						0		
		iv. Constructed emergency overflow	s (pric	or to the headworks)				0		
		v. Other								· · · · · · · · · · · · · · · · · · ·
	b.	Does the treatment works discharge impoundments that do not have outle					Yes		✓	No
		If yes, provide the following for each s		-		 	-			
		Location:								
		Annual average daily volume dischar	ged to	surface impoundment(s)					mgd	
		Is discharge continuou	is or	intermittent?						
	C.	Does the treatment works land-apply	treate	ed wastewater?		******	Yes		<u>✓</u>	No
		If yes, provide the following for each I	and a	pplication site:						
		Location:		<u></u>						
		Number of acres:	4 14 -							
		Annual average daily volume applied				gd				
		Is land application cor	าเเทนอ	us or intermit	tent?					
	d.	Does the treatment works discharge treatment works?	or tran	nsport treated or untreated w	astewater to anot	her	_ Yes		<u> </u>	No
l										

FACILITY NAME AND PERMIT NUMBER:

Culpeper Industrial Airpark WWTP, VA0068586

Form Approved 1/14/99
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	N/A			
	If transport is by a pa	rty other than the applicant, provide:		
	Transporter name:	N/A		
	Mailing Address:			
	Contact person:			
	Title:			
	Telephone number:			
	For each treatment w	orks that receives this discharge, provide the following:		
	FOI each treatment w	oks mat raceives this discharge, provide the following.		
	Name:	N/A		
	Mailing Address:			_
	Contact person:			
	Title:			
	•			
	Title: Telephone number:	NPDES permit number of the treatment works that receives this discharge.		
	Title: Telephone number: If known, provide the	NPDES permit number of the treatment works that receives this discharge. daily flow rate from the treatment works into the receiving facility.		mg
е.	Title: Telephone number: If known, provide the Provide the average of	•	Yes	mg
e.	Title: Telephone number: If known, provide the Provide the average of Does the treatment w A.8.a through A.8.d a	daily flow rate from the treatment works into the receiving facility.	Yes	
e.	Title: Telephone number: If known, provide the Provide the average of Does the treatment w A.8.a through A.8.d a If yes, provide the following	daily flow rate from the treatment works into the receiving facility. vorks discharge or dispose of its wastewater in a manner not included in a	Yes	mg

FAC	ILIT	Y NAME AND PERM	IT NUMBER:	Form Approved 1/14/99 OMB Number 2040-008
Culp	ере	er Industrial Airpark	WWTP, VA0068586	OMB Number 2040-008
,	WAS	STEWATER DISCHA	RGES:	
				ns A.9 through A.12 once for each outfall (including bypass points) through
1	whic	h effluent is discharge	ed. Do not include information on c	combined sewer overflows in this section. If you answered "no" to question plicants with a Design Flow Greater than or Equal to 0.1 mgd."
A.9.	De	scription of Outfall.		
	a.	Outfall number	001	
	b.	Location	13281 AIRPARK DRIVE	22701
			(City or town, if applicable) Culpeper	(Zip Code) VA
			(County) 38 deg., 31 min., 10 sec. N	
			(Latitude)	-77 deg., 51 min., 30 sec. W
	C.	Distance from shore	, ,	N/A ft.
	ď.	Depth below surface		N/A ft.
		Average daily flow r		0.011 mgd
	٠.	rivorage daily new r		
	f.		e either an intermittent or a	,
		periodic discharge?		Yes No (go to A.9.g.)
		If yes, provide the fo	llowing information:	
		Number of times per	year discharge occurs:	
		Average duration of	each discharge:	
		Average flow per dis	scharge:	mgd
		Months in which dis	charge occurs:	
	g.	Is outfall equipped w	vith a diffuser?	Yes No
A .10). De	scription of Receive	ng Waters.	
	a.	Name of receiving w	rater Hubbard Run	
	b.	Name of watershed	(if known) <u>R</u>	appahannock River
		United States Soil C	onservation Service 14-digit waters	shed code (if known):
	C.	Name of State Mana	agement/River Basin (if known):	Rappahannock River
		United States Geolo	gical Survey 8-digit hydrologic cata	loging unit code (if known):
	d.	Critical low flow of re	eceiving stream (if applicable):	chronic0cfs

e. Total hardness of receiving stream at critical low flow (if applicable): ______ N/A mg/l of CaCO₃

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Culpeper Industrial Airpark WWTP, VA0068586 A.11. Description of Treatment. a. What levels of treatment are provided? Check all that apply. Primary Secondary Advanced Other. Describe: b. Indicate the following removal rates (as applicable): 85 Design BOD, removal or Design CBOD, removal 85 Design SS removal N/A Design P removal N/A Design N removal Other Ammonia 85 c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe. Ultraviolet (U.V.) If disinfection is by chlorination, is dechlorination used for this outfall? No Yes d. Does the treatment plant have post aeration? A.12. Effluent Testing information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart. 001 Outfall number: PARAMETER MAXIMUM DAILY VALUE AVERAGE DAILY VALUE Value Units Value Units Number of Samples 7.0 pH (Minimum) S.U. 8.0 pH (Maximum) s.u. 0.018 MGD 0.009 MGD 3 Flow Rate 11.9 3 Temperature (Winter) deg. C 10.1 deg. C 22.9 deg. C 21.0 deg. C 3 Temperature (Summer) * For pH please report a minimum and a maximum daily value **MAXIMUM DAILY POLLUTANT AVERAGE DAILY DISCHARGE** ANALYTICAL ML / MDL DISCHARGE METHOD Units Units Number of Conc. Conc. Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. <QL BIOCHEMICAL OXYGEN BOD-5 <QL mg/L mg/L D.O. Probe 2 N/A CBOD-5 DEMAND (Report one) N/A **FECAL COLIFORM** <QL mg/L <QL mg/L gravimetric 1.00 **TOTAL SUSPENDED SOLIDS (TSS) END OF PART A.**

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99 OMB Number 2040-0086

Culp	eper In	dustrial Airpark WWTP, VA0068586	Child Nathbell 2040-0000							
BA	SIC	APPLICATION INFORMATION								
PAI	RT B.	ADDITIONAL APPLICATION INFORMATION FOR APPLIC EQUAL TO 0.1 MGD (100,000 gallons per day).	CANTS WITH A DESIGN FLOW GREATER THAN OR							
Alla	pplicant	is with a design flow rate ≥ 0.1 mgd must answer questions B.1 through	gh B.6. All others go to Part C (Certification).							
B.1. Inflow and Inflitration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or in										
	N/A gpd									
	Briefly	explain any steps underway or planned to minimize inflow and infiltration	ation.							
	-									
B.2.	This n	graphic Map. Attach to this application a topographic map of the are nap must show the outline of the facility and the following information. tire area.)								
	a. Th	he area surrounding the treatment plant, including all unit processes.								
		ne major pipes or other structures through which wastewater enters the eated wastewater is discharged from the treatment plant. Include out								
	c. Ea	ach well where wastewater from the treatment plant is injected under	ground.							
		fells, springs, other surface water bodies, and drinking water wells that orks, and 2) listed in public record or otherwise known to the applican								
	e. Ar	ny areas where the sewage sludge produced by the treatment works	s stored, treated, or disposed.							
	tru	the treatment works receives waste that is classified as hazardous ur uck, rail, or special pipe, show on the map where that hazardous wast sposed.								
B.3.	backup chlorina	ss Flow Diagram or Schematic. Provide a diagram showing the propose power sources or redundancy in the system. Also provide a water bation and dechlorination). The water balance must show daily averages between treatment units. Include a brief narrative description of the	alance showing all treatment units, including disinfection (e.g., e flow rates at influent and discharge points and approximate daily							
B.4.	Operat	tion/Maintenance Performed by Contractor(s).								
	Are any	y operational or maintenance aspects (related to wastewater treatmer tor?Yes _✓_No	nt and effluent quality) of the treatment works the responsibility of a							
		ist the name, address, telephone number, and status of each contractif necessary).	tor and describe the contractor's responsibilities (attach additional							
	Name:									
	Mailing	Address:								
	Telepho	one Number:								
	Respor	nsibilities of Contractor:								
B.5.	uncomp	uled Improvements and Schedules of Implementation. Provide in pleted plans for improvements that will affect the wastewater treatment and works has several different implementation schedules or is planning each. (If none, go to question B.6.)	nt, effluent quality, or design capacity of the treatment works. If the							
		st the outfall number (assigned in question A.9) for each outfall that is	covered by this implementation schedule.							
	00	01								

b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

_Yes <u></u>√_No

	Y NAME AND PER r Industrial Airpar		068586					proved 1/14/99 nber 2040-0086	
С	If the answer to B.	5.b is "Yes," brie	fly describe, inclu	uding new maximum	daily inflow	v rate (if applicabl	le).		
d.			nned independen	ce schedule or any actual dates of completion for the impler independently of local, State, or Federal agencies, indicate passible.					
			Schedule	Actua	al Completio	on			
	Implementation St	age	MM / DD /	YYYY MM /	DD / YYYY	•			
	- Begin construction	on	<u>09</u> / <u>01</u> /2			•			
	- End construction	1	<u>03 / 01 / 2</u>						
	 Begin discharge 		<u>04 / 01 / 2</u>		_/				
	- Attain operations	al level	<u>03</u> / <u>01</u> / <u>2</u>	<u>/</u>					
e.	Have appropriate	permits/clearanc	es concerning of	her Federal/State re	auirements	been obtained?	✓ Yes	No	
	., .	<u>-</u> '	-	h DEQ in March 2	•				
			DEQ in March 2						
po	andard methods for a flutant scans and mu atfall Number: 001				nimum, efflu	ent testing data r	must be based on at l	east three	
Р	OLLUTANT	1	JM DAILY HARGE	AVERAGE	DAILY DISCHARGE				
		Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML / MDL	
ONVEN	TIONAL AND NON	CONVENTIONA	L COMPOUNDS	<u>.</u> }.					
MMONI	A (as N)	T	1	1					
	NE (TOTAL AL, TRC)								
ISSOLV	ED OXYGEN		1			†			
	JELDAHL	 	†			 			
	EN (TKN) PLUS NITRITE	ļ	 	 		- 			
ITROGE	EN GREASE	<u> </u>	<u> </u>	 		 			
	ORUS (Total)	 	<u> </u>	\vdash		1			
				 		4			
OTAL D SOLIDS (ISSOLVED (TDS)								
THER									
REFE	R TO THE A	PPI ICATIO		END OF PAR		F WHICH (OTHER PARTS	S OF FORM	

2A YOU MUST COMPLETE

FACILITY NAME AND PE	RMIT NUMBER:		Form Approved 1/14/99 OMB Number 2040-0086						
Culpeper Industrial Airp	ark WWTP, VA0068586	ONE NUMBER 20-0-000							
BASIC APPLICATION INFORMATION									
PART C. CERTIFICATION									
All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.									
Indicate which parts of Form 2A you have completed and are submitting:									
Basic Applica	tion Information packet	Supplemental Application	nformation packet:						
		Part D (Expanded	Effluent Testing Data)						
		Part E (Toxicity To	esting: Biomonitoring Data)						
		Part F (Industrial	Jser Discharges and RCRA/CERCLA Wastes)						
		Part G (Combined	Sewer Systems)						
ALL APPLICANTS MUST	COMPLETE THE FOLLO	WING CERTIFICATION.							
designed to assure that que who manage the system of	ualified personnel properly g or those persons directly res complete. I am aware that	ather and evaluate the inform ponsible for gathering the info	under my direction or supervision in accordance with a system nation submitted. Based on my inquiry of the person or persons ormation, the information is, to the best of my knowledge and for submitting false information, including the possibility of fine						
Name and official title	Paul Howard, Jr., Directo	or of Environmental Service	es						
Signature									
Telephone number	(540) 727-3409		New long						
Date signed	If and If	marels	17/18/15						
	tting authority, you must sub te permitting requirements.		cessary to assess wastewater treatment practices at the treatment						

SEND COMPLETED FORMS TO:

_									
_	: A	~III	ITV	' NI A	ME	AND	DEDMIT	NUMBER	٠.
•	-			n.		MILL	FERMIL	NUMBER	١.

Culpeper Industrial Airpark WWTP, VA0068586

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE ANALYTICAL ML/ MDL Conc. Units Mass Units Conc. Units Mass Units Number METHOD Samples METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS. ANTIMONY N/A N/A ARSENIC BERYLLIUM N/A CADMIUM N/A CHROMIUM N/A COPPER N/A LEAD N/A MERCURY N/A NICKEL N/A SELENIUM N/A SILVER N/A THALLIUM N/A ZINC N/A CYANIDE N/A TOTAL PHENOLIC COMPOUNDS N/A HARDNESS (AS CaCO₃) N/A Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

FACILITY NAME AND PERMIT NUMBER:

Culpeper Industrial Airpark WWTP, VA0068586 Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT AVERAGE DAILY DISCHARGE MAXIMUM DAILY **DISCHARGE** Conc. Units ANALYTICAL ML/ MDL Units Mass Units Conc. Units Mass Number **METHOD** of Samples **VOLATILE ORGANIC COMPOUNDS.** ACROLEIN N/A ACRYLONITRILE N/A BENZENE N/A **BROMOFORM** N/A CARBON TETRACHLORIDE N/A CLOROBENZENE N/A CHLORODIBROMO-METHANE N/A CHLOROETHANE N/A 2-CHLORO-ETHYLVINYL N/A ETHER CHLOROFORM N/A DICHLOROBROMO-METHANE N/A 1,1-DICHLOROETHANE N/A 1,2-DICHLOROETHANE N/A TRANS-1,2-DICHLORO-ETHYLENE N/A 1.1-DICHLOROETHYLENE N/A 1,2-DICHLOROPROPANE N/A 1,3-DICHLORO-PROPYLENE N/A **ETHYLBENZENE** N/A METHYL BROMIDE N/A METHYL CHLORIDE N/A METHYLENE CHLORIDE N/A 1,1,2,2-TETRACHLORO-ETHANE N/A TETRACHLORO-ETHYLENE N/A TOLUENE N/A

FACILITY NAME AND PERMIT NUMBER:

Culpeper Industrial Airpark WWTP, VA0068586

Outfall number: 001	_ (Compl	ete onc	e for eac	h outfall	discharg	ing efflu	ent to w	aters of	the United	States.)	*************************************
POLLUTANT	N		IM DAIL'	1	A۱	/ERAGE	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE	N/A										
1,1,2-TRICHLOROETHANE	N/A										
TRICHLORETHYLENE	N/A										
VINYL CHLORIDE	N/A		,								
Use this space (or a separate sheet) to	provide in	formatio	n on other	volatile o	rganic cor	npounds	requested	by the p	permit writer.		
ACID-EXTRACTABLE COMPOUNDS											
P-CHLORO-M-CRESOL	N/A	!									
2-CHLOROPHENOL	N/A										
2,4-DICHLOROPHENOL	N/A										
2,4-DIMETHYLPHENOL	N/A										
4,6-DINITRO-O-CRESOL	N/A										
2,4-DINITROPHENOL	N/A										
2-NITROPHENOL	N/A										
4-NITROPHENOL	N/A										
PENTACHLOROPHENOL	N/A										
PHENOL	N/A						-				
2,4,6-TRICHLOROPHENOL	N/A										
Use this space (or a separate sheet) to	provide in	formation	on other	acid-extr	actable co	mpounds	requeste	d by the	permit writer.		
BASE-NEUTRAL COMPOUNDS.						·				I—————————————————————————————————————	
ACENAPHTHENE	N/A										
ACENAPHTHYLENE	N/A										
ANTHRACENE	N/A										
BENZIDINE	N/A										
BENZO(A)ANTHRACENE	N/A										
BENZO(A)PYRENE	N/A								· · · ·		

FACILITY NAME AND PERMIT NUMBER:Culpeper Industrial Airpark WWTP, VA0068586

Outfall number: 001	_(Comp	ete onc	e for eac	ch outfall	discharg	ging efflu	uent to w	aters of	the United	States.)	
POLLUTANT	N		IM DAIL'	Y	Ä۱	/ERAGE	DAILY	DISCH	ARGE		
	Conc.	Units		Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE	N/A										
BENZO(GHI)PERYLENE	N/A										
BENZO(K)FLUORANTHENE	N/A										
BIS (2-CHLOROETHOXY) METHANE	N/A										
BIS (2-CHLOROETHYL)-ETHER	N/A										
BIS (2-CHLOROISO-PROPYL) ETHER	N/A										
BIS (2-ETHYLHEXYL) PHTHALATE	N/A										
4-BROMOPHENYL PHENYL ETHER	N/A										
BUTYL BENZYL PHTHALATE	N/A										
2-CHLORONAPHTHALENE	N/A								_		
4-CHLORPHENYL PHENYL ETHER	N/A										
CHRYSENE	N/A				,						
DI-N-BUTYL PHTHALATE	N/A										
DI-N-OCTYL PHTHALATE	N/A										
DIBENZO(A,H) ANTHRACENE	N/A		٠								
1,2-DICHLOROBENZENE	N/A										
1,3-DICHLOROBENZENE	N/A										
1,4-DICHLOROBENZENE	N/A										
3,3-DICHLOROBENZIDINE	N/A										
DIETHYL PHTHALATE	N/A										
DIMETHYL PHTHALATE	N/A										
2,4-DINITROTOLUENE	N/A										
2,6-DINITROTOLUENE	N/A										
1,2-DIPHENYLHYDRAZINE	N/A										

FACILITY NAME AND PERMIT NUMBER:

Culpeper Industrial Airpark WWTP, VA0068586

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POLLUTANT	N		IM DAIL' IARGE	Y	A۱	/ERAGE	DAILY	DISCH	ARGE		
	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE	N/A										
FLUORENE	N/A										·
HEXACHLOROBENZENE	N/A										
HEXACHLOROBUTADIENE	N/A										
HEXACHLOROCYCLO- PENTADIENE	N/A										
HEXACHLOROETHANE	N/A										
INDENO(1,2,3-CD)PYRENE	N/A										
ISOPHORONE	N/A										
NAPHTHALENE	N/A										
NITROBENZENE	N/A										
N-NITROSODI-N-PROPYLAMINE	N/A										
N-NITROSODI- METHYLAMINE	N/A										
N-NITROSODI-PHENYLAMINE	N/A		·								
PHENANTHRENE	N/A										
PYRENE	N/A										
1,2,4-TRICHLOROBENZENE	N/A										
Use this space (or a separate sheet) to	provide in	formation	on other	base-neu	tral comp	ounds red	quested b	y the per	mit writer.		
Use this space (or a separate sheet) to	provide in	formation	on other	pollutant	s (e.g., pe:	sticides) (requested	by the p	ermit writer.		· · · · · ·

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Culpeper Industrial Airpark WWTP, VA0068586

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity
 test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results
 of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information
 requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate
 methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

methods. If test summaries al If no biomonitoring data is required, do no complete.	re available that contain all of the info t complete Part E. Refer to the App	ormation requested below, they may b lication Overview for directions on whi	e submitted in place of Part E. ch other sections of the form to
E.1. Required Tests.			
Indicate the number of whole effluen	nt toxicity tests conducted in the past	four and one-half years.	
chronicacute			
E.2. Individual Test Data. Complete the column per test (where each species		ent toxicity test conducted in the last for if more than three tests are being repo	
	Test number:	Test number:	Test number:
a. Test information.			
Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			
b. Give toxicity test methods followed	ed.		
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection metho	od(s) used. For multiple grab sample	s, indicate the number of grab sample	s used.
24-Hour composite			
Grab			
d. Indicate where the sample was to	aken in relation to disinfection. (Chec	k all that apply for each)	
Before disinfection			
After disinfection			
After dechlorination			

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Culpeper Industrial Airpark WWTP, VA0068586

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	Test number:	Test number:	Test number:
e. Describe the point in the treatme	nt process at which the sample was	collected.	
Sample was collected:			
f. For each test, include whether the	e test was intended to assess chroni	c toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performe	d.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	atory water, specify type; if receiving	water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt water	er, specify "natural" or type of artificia	al sea salts or brine used.	
Fresh water			
Salt water			
	for all concentrations in the test ser	ies.	
k. Parameters measured during the	test. (State whether parameter mee	ets test method specifications)	
рН			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.			
Acute:			
Percent survival in 100% effluent	%	%	%
LC₅o			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

FACILITY NAME AND PERMIT NUMBER Culpeper Industrial Airpark WWTP, V			Form Approved 1/14/99 OMB Number 2040-0086
Chronic:			
NOEC	%	%	%
IC ₂₅	%	%	%
Control percent survival	%	%	%
Other (describe)			
m. Quality Control/Quality Assuran	ce.		
Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			
E.3. Toxicity Reduction Evaluation. Is YesNo If yes,		xicity Reduction Evaluation?	
E.4. Summary of Submitted Blomonito cause of toxicity, within the past fou summary of the results.	ring Test Information. If you have r and one-half years, provide the date	submitted biomonitoring test informat es the information was submitted to the	tion, or information regarding the he permitting authority and a
Date submitted:	(MM/DD/YYYY)		
Summary of results: (see instruction	ns)		
REFER TO THE APPLICA	END OF PA		FR PARTS OF FORM

2A YOU MUST COMPLETE.

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99 OMB Number 2040-0086

Culpeper Industrial Airpark WWTP, VA0068586 SUPPLEMENTAL APPLICATION INFORMATION INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F. **GENERAL INFORMATION:** F.1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? Yes No F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. a. Number of non-categorical SIUs. b. Number of CIUs. SIGNIFICANT INDUSTRIAL USER INFORMATION: Supply the following information for each SiU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU. F.3. Significant industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. Name: Mailing Address:

r. 4 .	industrial Processes. Describe all of the industrial processes that affect of contribute to the 510's discharge.

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
Principal product(s):

Raw material(s):

F.6. Flow Rate.

Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
gpd (continuous orintermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

gpd (___continuous or ____intermittent)

₹.7.	Pretreatment Standards.	Indicate whether	the SIL) is subject to	o the following:
------	-------------------------	------------------	---------	-----------------	------------------

a.	Local limits	Yes	No
b.	Categorical pretreatment standards	Yes	No

If subject to categorical pretreatment standards, which category and subcategory?

	LITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-008
ılpe	per Industrial Airpark WWTP, VA0068586	
8.	Problems at the Treatment Works Attributed to Waste Discharged by th upsets, interference) at the treatment works in the past three years?	SIU. Has the SIU caused or contributed to any problems (e
	YesNo If yes, describe each episode.	
RCR	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDIC	ATED PIPELINE:
·.9.	RCRA Waste. Does the treatment works receive or has it in the past three y pipe?YesNo (go to F.12.)	ears received RCRA hazardous waste by truck, rail, or dedica
: 40	Waste Transport. Method by which RCRA waste is received (check all that	annivi:
	Truck Rail Dedicated Pipe	арруу,
	NailDedicated Pipe	
F.11.	Waste Description. Give EPA hazardous waste number and amount (volur	ne or mass, specify units).
	EPA Hazardous Waste Number Amount	<u>Units</u>
	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORF ON WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTE	
	Remediation Waste. Does the treatment works currently (or has it been no	
•.12.	• •	ified that it will) receive waste from remedial activities?
r.12.	Yes (complete F.13 through F.15.)No	iffed that it will) receive waste from remedial activities?
F.12.	Yes (complete F.13 through F.15.)No Provide a list of sites and the requested information (F.13 - F.15.) for each c	•
F.13.		urrent and future site.
F.13.	Provide a list of sites and the requested information (F.13 - F.15.) for each c Waste Origin. Describe the site and type of facility at which the CERCLA/R	urrent and future site.
F.13.	Provide a list of sites and the requested information (F.13 - F.15.) for each c Waste Origin. Describe the site and type of facility at which the CERCLA/R	urrent and future site.
F.13.	Provide a list of sites and the requested information (F.13 - F.15.) for each c Waste Origin. Describe the site and type of facility at which the CERCLA/R	urrent and future site.
F.13. F.14.	Provide a list of sites and the requested information (F.13 - F.15.) for each c Waste Origin. Describe the site and type of facility at which the CERCLA/R	urrent and future site. CRA/or other remedial waste originates (or is expected to orig
=.13. =.14.	Provide a list of sites and the requested information (F.13 - F.15.) for each of the site and type of facility at which the CERCLA/R in the next five years). Pollutants. List the hazardous constituents that are received (or are expect)	urrent and future site. CRA/or other remedial waste originates (or is expected to orig
F.13.	Provide a list of sites and the requested information (F.13 - F.15.) for each of the site and type of facility at which the CERCLA/R in the next five years). Pollutants. List the hazardous constituents that are received (or are expect)	urrent and future site. CRA/or other remedial waste originates (or is expected to orig
F.13. F.14.	Provide a list of sites and the requested information (F.13 - F.15.) for each of the control of	urrent and future site. CRA/or other remedial waste originates (or is expected to originates) ed to be received). Include data on volume and concentration
F.13. F.14.	Provide a list of sites and the requested information (F.13 - F.15.) for each of the waste Origin. Describe the site and type of facility at which the CERCLA/R in the next five years). Pollutants. List the hazardous constituents that are received (or are expect known. (Attach additional sheets if necessary). Waste Treatment.	urrent and future site. CRA/or other remedial waste originates (or is expected to originates) ed to be received). Include data on volume and concentration
F.13. F.14.	Provide a list of sites and the requested information (F.13 - F.15.) for each of the work of sites and type of facility at which the CERCLA/R in the next five years). Pollutants. List the hazardous constituents that are received (or are expect known. (Attach additional sheets if necessary). Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment of the content of	crorks?
F.13. F.14.	Provide a list of sites and the requested information (F.13 - F.15.) for each of the control of the site and type of facility at which the CERCLA/R in the next five years). Pollutants. List the hazardous constituents that are received (or are expect known. (Attach additional sheets if necessary). Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment verified.	crorks?
F.13. F.14.	Provide a list of sites and the requested information (F.13 - F.15.) for each of the control of the site and type of facility at which the CERCLA/R in the next five years). Pollutants. List the hazardous constituents that are received (or are expect known. (Attach additional sheets if necessary). Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment verified.	crorks?
F.13. F.14.	Provide a list of sites and the requested information (F.13 - F.15.) for each of the waste Origin. Describe the site and type of facility at which the CERCLA/R in the next five years). Pollutants. List the hazardous constituents that are received (or are expect known. (Attach additional sheets if necessary). Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment very essence. No If yes, describe the treatment (provide information about the removal efficiency).	crorks?

2A YOU MUST COMPLETE

Form Approved 1/14/99 **FACILITY NAME AND PERMIT NUMBER:** OMB Number 2040-0086 Culpeper Industrial Airpark WWTP, VA0068586 SUPPLEMENTAL APPLICATION INFORMATION PART G. COMBINED SEWER SYSTEMS If the treatment works has a combined sewer system, complete Part G. G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information) a. All CSO discharge points. b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters). c. Waters that support threatened and endangered species potentially affected by CSOs. G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information: a. Locations of major sewer trunk lines, both combined and separate sanitary. b. Locations of points where separate sanitary sewers feed into the combined sewer system. c. Locations of in-line and off-line storage structures. d. Locations of flow-regulating devices. e. Locations of pump stations. CSO OUTFALLS: Complete questions G.3 through G.6 once for each CSO discharge point. G.3. Description of Outfall. a. Outfall number b. Location (City or town, if applicable) (Zip Code) (County) (State) (Latitude) (Longitude) c. Distance from shore (if applicable) d. Depth below surface (if applicable) e. Which of the following were monitored during the last year for this CSO? Rainfall CSO pollutant concentrations CSO frequency _CSO flow volume _Receiving water quality f. How many storm events were monitored during the last year? G.4. CSO Events. a. Give the number of CSO events in the last year. events (___ actual or ___ approx.) b. Give the average duration per CSO event.

actual or ___

approx.)

hours (__

		Y NAME AND PERMIT NUMBER: r Industrial Airpark WWTP, VA0068586	Form Approved 1/14/99 OMB Number 2040-0086
	C.	Give the average volume per CSO event million gallons (actual or approx.)	
	d.	Give the minimum rainfall that caused a CSO event in the last year inches of rainfall	
G.5.	Des	cription of Receiving Waters.	
	a.	Name of receiving water:	
	b.	Name of watershed/river/stream system:	
		United States Soil Conservation Service 14-digit watershed code (if know	vn):
	C.	Name of State Management/River Basin:	· · · · · · · · · · · · · · · · · · ·
		United States Geological Survey 8-digit hydrologic cataloging unit code (if known):
G.6.	CSC	Operations.	
	per	scribe any known water quality impacts on the receiving water caused by manent or intermittent shell fish bed closings, fish kills, fish advisories, ot ality standard).	ner recreational loss, or violation of any applicable State water
	_		
		END OF PAR	ΓG.
RE	FE	R TO THE APPLICATION OVERVIEW TO DET 2A YOU MUST CO	

FACILITY NAME: Culpeper County Industrial Airpark WWTP VPDES PERMIT NUMBER: VA0068586 VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All app	plicants must complete Section A (General Information).
2.	Will th	is facility generate sewage sludge? X Yes No
	Will th	is facility derive a material from sewage sludge?Yes _X_No
		answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material d From Sewage Sludge).
3.	Will th	is facility apply sewage sludge to the land?Yes _X_No
÷	Will se	ewage sludge from this facility be applied to the land? _Yes _X_No
	If you a	answered No to both questions above, skip Section C.
	If you a	answered Yes to either, answer the following three questions: N/A
	a.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo
	If you a	answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you a	answered Yes to a, b or c, skip Section C.
1.	Do you	own or operate a surface disposal site?Yes X_No
	If Yes,	complete Section D (Surface Disposal).

FACILITY NAME: <u>Culpeper County Industrial Airpark WWTP</u> VPDES PERMIT NUMBER: <u>VA0068586</u> SECTION A. GENERAL INFORMATION

All applicants must complete this section.

1.	Facility	y Information.
	a.	Facility name: Culpeper County Industrial Airpark WWTP
	b.	Contact person:Jonathon Weakley
		Title: Chief Operator
		Phone: (540) 727-3409
	c.	Mailing address:
		Street or P.O. Box: 118 West Davis Street, Suite 101
		City or Town: Culpeper State: VA Zip: 22701
	d.	Facility location:
	٠.	Street or Route #: 13281 Airpark Drive
		County: Culpeper
		City or Town: Culpeper State: VA Zip: 22701
	e.	Is this facility a Class I sludge management facility?Yes _XNo
	f.	Facility design flow rate: mgd
	g.	Total population served: 400
	h.	Indicate the type of facility:
	***	X Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
2.	Applic	ant Information. If the applicant is different from the above, provide the following:
	a.	Applicant name: N/A
	b.	Mailing address:
		Street or P.O. Box:
		City or Town: State: Zip:
	c.	Contact person:
		Title:
		Phone: ()
	d.	Is the applicant the owner or operator (or both) of this facility?
		owneroperator
	e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
		facility applicant
3.	Permit	Information.
	a.	Facility's VPDES permit number (if applicable): <u>VA0068586</u>
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received
		or applied for that regulate this facility's sewage sludge management practices:
		Permit Number: Type of Permit:
		N/AN/A
4.		Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this
	facility	occur in Indian Country?YesXNo If yes, describe:

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- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

7.	Contractor Information. Are any operational or maintenance concerts of this facility related to cover a cludge
1.	Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor?Yes _XNo
	If yes, provide the following for each contractor (attach additional pages if necessary).
	Name:
	Mailing address:
	Street or P.O. Box:
	City or Town: State: Zip:
	Phone: ()
	Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:
	If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).
8.	Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seg, for this facility's

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.
N/A

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				

9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:
	_X_Section A (General Information)
	Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
	Section C (Land Application of Bulk Sewage Sludge)
	Section D (Surface Disposal)

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official pit			
Signature Ph	Mounds	_ Date Signed _	12/18/15
Telephone number	540-727-3409		•

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.



SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.		unt Generated On Site. dry metric tons per 365-day period generated at your facility: 10 dry metric tons
2.	dispo	unt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or sal, provide the following information for each facility from which sewage sludge is received. If you receive ge sludge from more than one facility, attach additional pages as necessary. Facility name: N/A Contact Person: Title: Phone ()
	c.	Mailing address: Street or P.O. Box: City or Town: State: Zip:
	d.	Facility Address: (not P.O. Box)
	e. f.	Total dry metric tons per 365-day period received from this facility: dry metric tons Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3.	Treat	ment Provided at Your Facility. N/A
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass BNeither or unknown
	b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
	c. d.	Which vector attraction reduction option is met for the sewage sludge at your facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce
		vector attraction properties of sewage sludge:
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above:
4.	of Ve	ration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One ctor Attraction Reduction Options 1-8 (EQ Sludge). N/A
	-	age sludge from your facility does not meet all of these criteria, skip Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons dry metric tons
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? YesNo

FAC:	ILITY N	AME: Culpeper County Industrial Airpark WWTP VPDES PERMIT NUMBER: VA0068586				
5.		or Give-Away in a Bag or Other Container for Application to the Land. N/A				
	(Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this					
	questi	on if sewage sludge is covered in Question 4.)				
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: dry metric tons				
	b.	Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or				
		given away in a bag or other container for application to the land.				
6.	-	nent Off Site for Treatment or Blending.				
		plete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question				
		ot apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is				
		ed in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) Receiving facility name: Remington Wastewater Facility				
	a.	Receiving facility name: Remington wastewater racinty				
	b.	Facility contact: Raymond Searls				
		Title: Chief Operator				
		Phone: (540) 439-2225				
	c.	Mailing address:				
		Street or P.O. Box: 12523 Lucky Hill Road				
		City or Town: Remington State: VA Zip: 22734				
	d.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: 10 (estimated) dry metric tons				
	e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of				
		all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal				
		practices:				
		Permit Number: Type of Permit:				
		<u>VA0076805</u> <u>VPDES</u>				
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? _X_YesNo				
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?				
		Class AClass BX_Neither or unknown				
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to				
		reduce pathogens in sewage sludge: <u>pursuant to Remington STP permit and sludge management plan</u>				
	g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the				
		sewage sludge? X Yes No				
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility? Option 1 (Minimum 38 percent reduction in volatile solids)				
		Option 2 (Anaerobic process, with bench-scale demonstration)				
		Option 3 (Aerobic process, with bench-scale demonstration)				
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)				
		Option 5 (Aerobic processes plus raised temperature)				
		Option 6 (Raise pH to 12 and retain at 11.5)				
		Option 7 (75 percent solids with no unstabilized solids)				
		Option 8 (90 percent solids with unstabilized solids)				
		X None unknown				
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to				
		reduce vector attraction properties of sewage sludge:				

i. If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility

Does the receiving facility provide any additional treatment or blending not identified in f or g above?

If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:

Yes X No

h.

	j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?Yes _X_No
	k.	If yes, provide a copy of all labels or notices that accompany the product being sold or given away. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally
		used for such purposes? X Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.
		Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the
		week and the times of the day sewage sludge will be transported. Route 685 approximately 1 mile to U.S. 29 North approximately 3 miles; days of the week Monday through Friday normally, hours can vary.
7.		Application of Bulk Sewage Sludge. N/A
		plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or
	o; com a.	replete Question 7.b, c & d only if you are responsible for land application of sewage sludge.) Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry
	u.	metric tons
	b.	Do you identify all land application sites in Section C of this application?YesNo
		If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
	c.	Are any land application sites located in States other than Virginia?YesNo
		If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to
		comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).
8.	Surfa	ce Disposal. N/A
	(Comp	olete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: dry metric tons
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage
		sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: () Contact is:Site OwnerSite operator
	e.	Mailing address.
	٥.	Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal
		site: dry metric tons
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of
		all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface
		disposal site:
		Permit Number: Type of Permit:

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FACILITY NAME: Culpeper County Industrial Airpark WWTP VPDES PERMIT NUMBER: VA0068586 Incineration, N/A (Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.) Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: dry metric tons Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? b. Yes No If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary. Incinerator name or number: c. d. Contact person: Title: Phone: () Contact is: __Incinerator Owner __Incinerator Operator Mailing address. e. Street or P.O. Box: _State:__ City or Town: Zip: Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge f. dry metric tons incinerator: List on this form or an attachment the numbers of all other federal, state or local permits that regulate the g. firing of sewage sludge at this incinerator: Permit Number: Type of Permit: 10. Disposal in a Municipal Solid Waste Landfill. N/A (Complete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.) a. Landfill name: Contact person: b. Title: Phone: () Contact is: __Landfill Owner __Landfill Operator Mailing address. c. Street or P.O. Box: City or Town:____ ____ State: Zip: Landfill location. d. Street or Route #: County: City or Town: State: Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill: e. dry metric tons List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the f. operation of this municipal solid waste landfill: Permit Number: Type of Permit: Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 g. VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill? Yes No Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid h. Waste Management Regulation, 9 VAC 20-80-10 et seq.? ___Yes ___No i. Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill be watertight and covered? ___ Yes ___ No Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week

and time of the day sewage sludge will be transported.

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or

The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or

You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

Comp	iete Sectioi	i C for every site on which the sewage studge that you reported in B./ is land applied.				
1.	Identification of Land Application Site.					
••	a.	Site name or number:				
	b.	Site location (Complete i and ii)				
		i. Street or Route#:				
		County:				
		City or Town: State: Zip:				
		ii. Latitude: Longitude:				
		Method of latitude/longitude determination				
		USGS map Filed survey Other				
	C.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable)				
	•	that shows the site location.				
2.	Owne	er Information.				
	a.	Are you the owner of this land application site?YesNo				
	b.	If no, provide the following information about the owner:				
		Name:				
		Street or P.O. Box:				
		City or Town: State: Zip:				
		Phone: ()				
3.	Appli	er Information:				
	a.	Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?YesNo				
	b. If no, provide the following information for the person who applies the sewage sludge:					
		Name:				
		Street or P.O. Box:				
		City or Town: State: Zip:				
		Phone: ()				
	c.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person				
		who applies sewage sludge to this land application site:				
		Permit Number: Type of Permit:				
4.		ype. Identify the type of land application site from among the following:				
		ricultural landReclamation siteForest				
	Pu	blic contact siteOther. Describe				
5.		Vector Attraction Reduction.				
	Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?					
		esNo If yes, answer a and b.				
	a.	Indicate which vector attraction reduction option is met:				
		Option 9 (Injection below land surface)				
		Option 10 (Incorporation into soil within 6 hours)				
	b.	Describe, on this form or on another sheet of paper, any treatment processes used at the land application site				
		to reduce the vector attraction properties of sewage sludge:				

Cumulative Loadings and Remaining Allotments. (Complete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates (CPLRs) - see instructions.) Have you contacted DEO or the permitting authority in the state where the sewage sludge subject to the a. CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? __Yes __No If no, sewage sludge subject to the CPLRs may not be applied to this site. If yes, provide the following information: Permitting authority: Contact person: Phone:() Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, b. 1993? ___Yes ___No If no, skip the rest of Question 6. If yes, answer questions c - e. c. Site size, in hectares: (one hectare = 2.471 acres) Provide the following information for every facility other than yours that is sending or has sent sewage sludge d. subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility name: Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: State: Zip: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: e. Cumulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Potassium (mg/kg)

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Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

Alkalinity as CaCO₃ (mg/kg)

7.

Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
 - 1) Water wells, abandoned or operating
 - 2) Surface waters
 - 3) Springs
 - 4) Public water supply(s)
 - 5) Sinkholes
 - 6) Underground and/or surface mines
 - 7) Mine pool (or other) surface water discharge points
 - 8) Mining spoil piles and mine dumps
 - 9) Quarry(s)
 - 10) Sand and gravel pits
 - 11) Gas and oil wells
 - 12) Diversion ditch(s)
 - 13) Agricultural drainage ditch(s)
 - 14) Occupied dwellings, including industrial and commercial establishments
 - 15) Landfills or dumps
 - 16) Other unlined impoundments
 - 17) Septic tanks and drainfields
 - 18) Injection wells
 - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
 - 1) Maximum and minimum percent slopes
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Land Application Agreement Biosolids Form and necessary attachments (attached at end of VPDES Sewage Sludge Permit Application Form) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

•	•	_ 1			
1	1. '	(iround	W/ater	NΛ	lonitoring.
	1.	OHOUIU.	AA GIFCI	TAI	OHIOHIE.

Are any ground water monitoring data available for this land application site? ___Yes ___No If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-b for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U.
 S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office 6669 Short Lane Gloucester, VA 23061 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

 Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1). Soil symbol
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)

Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

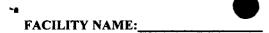
Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system.
 Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.



SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

1.	Infor	nation on Active Sewage Sludge Units.				
	a.	Unit name or number:				
	b.	Unit location				
		i. Street or Route#:				
		County:				
		City or Town: State: Zip:				
		ii. Latitude: Longitude:				
		Method of latitude/longitude determination				
		USGS map Filed survey Other				
	c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.				
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:dry metric tons.				
	e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit: dry metric tons.				
	f.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of				
	••	1 x 10 ⁻⁷ cm/sec?YesNo If yes, describe the liner or attach a description.				
	g.	Does the active sewage sludge unit have a leachate collection system?YesNo If yes, describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:				
	h. i.	If you answered no to either f or g, answer the following: Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site?YesNo If yes, provide the actual distance in meters: Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)				
,	Sawa	Provide with this application a copy of any closure plan developed for this active sewage sludge unit. ge Sludge from Other Facilities.				
۷.		vage sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo				
		, provide the following information for each such facility, attach additional sheets as necessary.				
	a.	Facility name:				
	b.	Facility contact: Title: Phone: ()				
	c.	Mailing address. Street or P.O. Box: City or Town: State: Zip:				
	d.	List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the facility's sewage sludge management practices: Permit Number: Type of Permit:				
	e.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?				
		Class AClass BNeither or unknown				
	f.	Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce pathogens in sewage sludge:				

	g.	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids)
	h.	None or unknown Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:
	i.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:
3.	Vector	Attraction Reduction.
	a.	Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit? Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Option 11 (Covering active sewage sludge unit daily)
	b.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:
4.	Ground	d Water Monitoring.
	a.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit?YesNo If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.
	b.	Has a ground water monitoring program been prepared for this active sewage sludge unit? YesNo If yes, submit a copy of the ground water monitoring program with this application.
	c.	Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNo If yes, submit a copy of the certification with this application.
5.	Are yo	pecific Limits. u seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? No If yes, submit information to support the request for site-specific pollutant limits with this application.

FACILITY NAME:_

VPDES PERMIT NUMBER:

LAND APPLICATION AGREEMENT - BIOSOLIDS

the Landowner in the event individual parcels identified	eement is made on, re erminated in writing by either p of a sale of one or more parce in this agreement changes, the eive biosolids or industrial resi	els, until ownership of all parce ose parcels for which ownersh	els changes. If ownership of	
Landowner: The Landowner is the owner the agricultural, silvicultural as Exhibit A.	er of record of the real property or reclamation sites identified	/ located in below in Table 1 and identifie	Virginia, which includes d on the tax map(s) attached	
	Table 1.: Parcels author	ized to receive biosolids		
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	
☐ Additional parcels containing Lan	d Application Sites are identified on S	Supplement A (check if applicable)		
	e Landowner is the sole owne e Landowner is one of multiple			
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall: 1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and 2. Notify the Permittee of the sale within two weeks following property transfer. The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for				
application or any part of this agreement becomes invalid or the information herein contained becomes incorrect. The Landowner hereby grants permission to the Permittee to land apply biosolids on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of biosolids for the purpose of determining compliance with regulatory requirements applicable to such application.				
Landowner – Printed Name, Title	e Signature	Mailing	Address	
Permittee:				
Permittee – Authorized Represer	-	Mailing	Address	

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LAND APPLICATION AGREEMENT - BIOSOLIDS

Permittee:	County or City:
Landowner:	

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days.
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

exceeding 0.45 pounds/acre (0.5 kilograms/hectare)).
Landowner's Signature	Date

LAND APPLICATION AGREEMENT - BIOSOLIDS

Landowner Coordination Form

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This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and each of the legal landowners of those tax parcels. A *Land Application Agreement – Biosolids* form, pages 1 and 2 with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:	
County or City:	
Please Print	(Signatures not required on this page)
Tax Parcel ID(s)	Landowner(s)
	
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VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

LAND APPLICATION AGREEMENT - BIOSOLIDS				
Permittee:		City/County:		
Landowner:				
Supplement A: Additio	nal Land Application Site	98		
	Table 1 continued: Parcels a	uthorized to receive biosolids.		
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	
				
	 			
				
		*		

10 20 40				

Landowner -- Printed Name Signature Mailing Address

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